

Claims

1. A plug-in safety coupling for pressure pipes (10; 12) comprising a coupler box (1) pivotally mounted therein, the blocking member having a diametrical through bore (5) in which a plug (11) can be inserted in a depressurized state at an acute to right angle with respect to the conducting position and brought into the conducting position by pivoting the plug (11), *characterised in that* a cap-like locking sleeve (2) having a hemispherical front end (7) is placed over the coupler box (1) with the pivoting member (4), the hemispherical front end (7) having a spherically extending oblong hole (8) which extends from the centre of the hemispherical end (7) along a great circle on the hemispherical end (7), the cap-like locking sleeve (2) being rotatably mounted on the coupler box (1) and actuated by a spring so that its oblong hole (8) extends at an angle with respect to the pivoting plane of the blocking member (4) and the plug (11), and being rotatable against the force of the spring into the pivoting plane of the blocking member (4) and the plug (11).
2. A plug-in safety coupling for pressure pipes (10; 12) according to claim 1, *characterised in that* the cap-like locking sleeve (2) is mounted for rotation by 90° on the coupler box (1) and is actuated by a spring such that its oblong hole (8) extends at an angle of 90° with respect to the pivoting plane of the blocking member (4) and the plug (11) and is rotatable against the force of the spring into the pivoting plane of the blocking member (4) and the plug (11).
3. A plug-in safety coupling for pressure pipes according to any preceding claim, *characterised in that* the coupler housing (3) has a relief bore which leads from the outside into the interior of the receiving bore for the blocking member (4) outside the pressure pipe.
4. A plug-in safety coupling for pressure pipes according to any preceding claim, *characterised in that* a stop is formed inside the locking sleeve (2) and at the opposite outer side of the coupler housing (3), so that the rotation of the spring loaded locking sleeve (2) abuts a stop when its oblong hole (8) comes to lie on the front side of the blocking member (4) in the coupler housing (3).
5. A plug-in safety coupling for pressure pipes according to any preceding claim, *characterised in that* the appertaining plug (11) has a projection with a chamfered shoulder (16) which slides under the oblong hole in the housing (3) when the plug (11) is inserted in the bore (5) and rotated.

6. A plug-in safety coupling for pressure pipes according to any preceding claim, *characterised in that* the locking sleeve (2) is made of sheet steel or sheet aluminium by pressing.
7. A plug-in safety coupling for pressure pipes according to any one of claims 1 to 5, *characterised in that* the locking sleeve (2) is made of aluminium by die-casting.
8. A plug-in safety coupling for pressure pipes according to any one of claims 1 to 5, *characterised in that* the locking sleeve (2) is made of plastics by injection moulding.
9. A plug-in safety coupling for pressure pipes according to any one of claims 1 to 5, *characterised in that* the locking sleeve (2) is made of brass.